

# Mark Leonardi

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## EDUCATION

**Northwestern University**, Evanston, IL

Robert R. McCormick School of Engineering and Applied Sciences

Bachelor of Science in Computer Science, Minor in Data Science

Relevant Coursework: Data Visualization, Design and Analysis of Algorithms, Data Structures and Algorithms, Engineering Analysis, C/C++, Python, Physics, Chemistry, Computer System Software, Artificial Intelligence, Data Science

Cumulative GPA: 3.61/4.00

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## EXPERIENCE

**Credera** - Chicago, IL

Technology Solutions Consulting Intern

June 2022 - August 2022

- Developed an internal, data-driven website using Python, SQL, SQLAlchemy, JavaScript, HTML, and predictive modeling to produce accurate relevance scores that predict the impact of current technologies in the future.
- Worked daily on SQL database maintenance and migrations. Created data visualizations using Plotly to express trends and simplify complex computational topics.
- Worked in a high-paced, agile team environment that involved daily SCRUM meetings as well as two presentations to upper-level management.

**Northwestern University Athletic Department, Communications** - Evanston, IL

Student Worker

September 2019 - Present

- Research statistics for Northwestern athletic programs and compose game recaps and player biographies for NUsports.com
- Assist in the administration of social media accounts for Northwestern athletic teams

**Center for Connected Learning and Computer-Based Modeling** - Evanston, IL

Summer Intern

June 2021 - September 2021

- Built machine learning models in Python to analyze face-recognition data generated by OpenFace software used on individuals playing an educational video game
  - Produced a 22-page research paper connecting the results of the machine learning models and the participants' comprehension of information provided to them during gameplay
  - Worked with Python, agent-based modeling, NetLogo, and Jupyter Notebook, while learning about machine learning, affective computing, and educational theory
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## PROJECTS

**Northwestern University, Design Thinking and Communication Course** - Evanston, IL

Client: Shirley Ryan Ability Lab, Chicago, IL

Fall 2019

- Designed device that allows quadriplegic kids to play video games with their head and face
- Led team in designing and building prototype of design
- Won **Communication Award** for presentation at Northwestern University Design Expo

Client: Northwestern University, Evanston, IL

Winter 2020

- Led team in entirely virtual design process to design COVID-19 hair protection for nurses and doctors

**Northwestern University, Practicum of Intelligent Information Systems** - Evanston, IL

Spring 2022

- Built React website that responded to a user-inputted prompt with an auto-generated "comedy" story, using five uniquely trained language models that each contributed one word at a time to the story.
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## LEADERSHIP/ACTIVITIES

**Special Olympics** - Trumbull, CT

May 2018 - July 2018

- Co-Chair of soccer clinic at St. Joseph High School
- Led fundraising efforts and recruited athletes and volunteers. Coordinated with vendors to purchase food and t-shirts.

**Lumi Tutors** - Evanston, IL

2021 - Present

- Weekly SAT tutoring with a Chicago Public Schools student
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## SKILLS

Computer: Python, HTML/CSS, SQL, JavaScript, Racket, C++, C#, C, R, Jupyter Notebook, Pandas, Java, React, Flask